

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1 - 4. (Canceled)

5. (Currently Amended) The compressor as claimed in claim ~~4~~ 18, wherein each of the plurality of guide ~~surface~~ surfaces includes a continuous surface from an outside circumferential surface of the head.

6. (Currently Amended) The compressor as claimed in claim ~~4~~ 18, wherein the outside circumferential surface of the skirt is provided at the same distance from a longitudinal axis of the piston.

7. (Currently Amended) The compressor as claimed in claim ~~4~~ 18, wherein the outside circumferential surface of the skirt has the same radius of curvature from the longitudinal axis of the piston.

8. (Currently Amended) The compressor as claimed in claim ~~7~~ 18, wherein the outside circumferential surface of the skirt has an elliptical curvature from the longitudinal axis

of the piston.

9. (Original) The compressor as claimed in claim 8, wherein an outside surface of the skirt and an outside surface of the guide surface are connected with a continuous surface without a step.

10. (Currently Amended) A compressor, comprising:

a cylinder having a compression chamber therein;

a piston having a projection provided ~~to~~ on a head thereof in contact with the compression chamber ~~for inserting~~ configured to be inserted into a discharge hole ~~provided for discharging~~ that discharges a working fluid when the head is close to a top dead center, ~~for reciprocating inside of~~ and configured to reciprocate within the cylinder to draw the working fluid, ~~and compress, and discharge the working fluid,~~ wherein the projection has a relationship of  $0.3 < (h/d) < 0.5$  between a top end diameter (d) thereof and a height (h) thereof; and

a connecting rod connected between ~~the~~ a crankshaft and the piston, ~~for converting to convert~~ rotation of the crankshaft into a linear reciprocating movement of the piston.

11. (Original) The compressor as claimed in claim 10, wherein the discharge hole has rounded edges of opposite ends.

12. (Original) The compressor as claimed in claim 10, wherein the discharge hole has an intermediate part between opposite ends, having the same area.

13. (Original) The compressor as claimed in claim 10, wherein the projection has a height the same with a length of the discharge hole.

14. (Original) The compressor as claimed in claim 10, wherein the projection is at a position spaced away from a longitudinal axis of the piston.

15. (Original) The compressor as claimed in claim 10, wherein the projection is conical with a fore end thereof cut away therefrom.

16. (Currently Amended) The compressor as claimed in claim 15, wherein the projection has a ratio of a diameter  $[(D)]$  of a bottom end to a diameter  $[(d)]$  of a top end within a range of 1.2 ~ 1.4 : 1.0.

17. (Canceled)

18. (Currently Amended) A compressor, comprising:  
a cylinder having a compression chamber therein; and

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a piston including:

a head ~~for reciprocating~~ configured to reciprocate within the cylinder while making friction with an inside wall of the cylinder, to draw a working fluid into the compression chamber, compress, and discharge the working fluid;

a projection provided ~~to a~~ on the head in contact with the compression chamber ~~for inserting~~ configured to be inserted into a discharge hole ~~provided for discharging that discharges~~ a working fluid when the head is close to a top dead center, wherein the projection has a relationship of  $0.3 < (h/d) < 0.5$  between a top end diameter (d) thereof and a height (h) thereof;

a skirt extended from a lower end of the head spaced a predetermined distance away from the inside wall of the cylinder; ~~and;~~

a plurality of guide surfaces each projected from an outside circumferential surface of the skirt ~~for guiding~~ configured to guide reciprocating movement of the head while making friction with the inside wall of the cylinder; and

a connecting rod connected between ~~the~~ a crankshaft and the piston, ~~for converting that converts~~ rotation of the crankshaft into a linear reciprocating movement of the piston.

19. (Currently Amended) The compressor as claimed in claim 18, wherein the plurality of guide surfaces ~~are~~ is provided along a length direction of the piston, and ~~are provided~~ along a

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circumferential direction of the skirt at regular intervals.

20. (Currently Amended) The compressor as claimed in claim 18, wherein the plurality of guide surface-is surfaces is provided over a range ~~grater~~ greater than at least 40° along a circumferential direction of the skirt around the longitudinal axis of the piston.

21. (Currently Amended) The compressor as claimed in claim 18, wherein the outside circumferential surface of the skirt has the same radius of curvature from the longitudinal axis of the piston.

22. (Original) The compressor as claimed in claim 18, wherein the outside circumferential surface of the skirt has an elliptical curvature from the longitudinal axis of the piston.

23. (Currently Amended) The compressor as claimed in claim 18, wherein the projection has a height the same ~~with~~ as a length of the discharge hole.

24. (Original) The compressor as claimed in claim 18, wherein the projection is conical with a fore end thereof cut away therefrom.

25. (Currently Amended) The compressor as claimed in claim 24, wherein the projection has a ratio of a diameter  $\frac{D}{d}$  of a bottom end to a diameter  $\frac{d}{D}$  of a top end within a range of 1.2 ~ 1.4 : 1.0.

26. (Canceled)